

What is claimed is:

- Sub AI
1. A tension mask assembly comprising: a tension mask having electron beam through holes shaped as a slot or grill, a sub-frame for tensioning the tension mask, and main frames welded to the tension mask,

wherein each of the main frames is bent at a middle portion in the width direction, and has a portion perpendicular to the tension mask defining a partition and another portion opposite to the tension mask defining a lower plane,

- wherein widths of a middle portion and both ends of the lower plane are formed in the range of the following equation:

$$0 < \frac{w_1 - w_2}{w_2} \leq 1.0$$

herein, w_1 is the width of the middle portion, and w_2 is the width of both ends.

2. A tension mask assembly comprising: a tension mask having electron beam through holes shaped as a slot or grill, a sub-frame for tensioning the tension mask, and main frames welded to the tension mask,

wherein each of the main frames has a partition perpendicular to the tension mask, a lower plane perpendicularly bent from the partition with a certain width to be opposed to the tension mask, and a support bent from the lower plane to support the partition at the outer edge,

wherein widths of a middle portion and both ends of the lower plane are formed in the range of the following equation:

$$0 < \frac{y_1 - y_2}{y_2} \leq 1.0,$$

herein, y_1 is the width of the middle portion, and y_2 is the width of both ends.

3. A tension mask assembly according to claim 2, wherein widths of a middle portion and both ends of the support are formed in the range of the following equation:
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$$0 < \frac{d_1 - d_2}{d_2} \leq 1.0$$

herein, d_1 is the width of the middle portion, and d_2 is the width of both ends.

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